

CT300 Tooling Board

COMPOTOOL CT300 is a high performance, low density tooling board exhibiting very high temperature resistance and an extremely low coefficient of thermal expansion (CTE).

CT300 can be used in combination with COMPOTOOL CT850 board for the production of master models or short run direct tooling for the manufacture of composite tooling and components.

COMPOTOOL tooling boards can be used with resin systems requiring very high processing temperatures such as Cyanate Ester, Benzoxazine, Bismaliamide (BMI) and thermoplastic systems.

CT300 is inert and contains no VOC's.



Key Features:

- Very high temperature resistance.
- Very low thermal expansion.
- Low density to reduce overall weight.
- Easily machined.
- Can be used to form the core of complex shapes.
- Can be used with both high and low temperature curing resin systems.

Technical Information:

| | |
|----------------------------------|--|
| Density | 300 kgm ⁻³ (20lb/ft ⁻³) |
| Max Use Temperature | 850°C (1500°F) |
| Coefficient of Thermal Expansion | 6x10 ⁻⁶ K ⁻¹ (3.3x10 ⁻⁶ °F ⁻¹) |
| Compression Strength | 2.0 MPa (0.3 ksi) |
| Thermal Conductivity | 0.1 Wm ⁻¹ K ⁻¹ |
| Specific Heat Capacity | 1050 J.kg ⁻¹ K ⁻¹ |

Storage: Store in a cool dry location. Handle with care to avoid damage.

Note: it is recommended that CT300 is stabilised under workshop conditions before machining.

Cutting: Can be cut with tungsten carbide tipped saw blades.

Bonding: To achieve maximum performance CT300 should be bonded with COMPOTOOL CTA505 adhesive.

Machining: CT300 can be machined using tungsten carbide tipped tools and can be easily sanded.

Supply:

| Dimensions / mm (in) | Board Weight / kg (lb) |
|---------------------------|------------------------|
| 1000x500x100 (47x19x4) | 14.0 (30) |

Health and Safety:

FOR INDUSTRIAL OR PROFESSIONAL USE ONLY.

DO NOT HANDLE UNTIL PRECAUTIONS ON THE SAFETY DATA SHEET HAS BEEN CAREFULLY READ AND UNDERSTOOD.

FOR ADDITIONAL ENVIROMENTAL, HEALTH AND SAFTY INFORMATION REFER TO SAFETY DATA SHEET.

BY ACCEPTING THE GOODS SUPPLIED BY COMPOTOOL SELLER AND BUYER AGREE TO THE FOLLOWING LIMITED WARRANTY AND REMEDIES LIMITATIONS:

COMPOTOOL warrants that goods sold will be merchantable. If goods are defective, Buyer may return them at Buyer's cost to COMPOTOOL within 12 months of purchase for a full refund of the purchase price. Other than this limited warranty, there are no express or implied warranties. There is no warranty as to fitness for a particular use. COMPOTOOL recommends that The Buyer shall take all recommended safety precautions while working with the goods. COMPOTOOL and Buyer agree that other than return of the purchase price COMPOTOOL will not be liable for any damages, consequential damages or incidental damages. When handling this product prolonged skin contact may lead to skin irritation and airborne dust can be released. It is recommended that suitable gloves, respiratory and eye protection equipment are used when handling. When sanding and machining use appropriate dust extraction and work in a well-ventilated area.

All information contained in this data sheet is given in good faith and based on tests believed to be reliable. COMOPTOOL Ltd. makes no warranty of fitness for a particular use. It is the responsibility of the user to determine the suitability of the products for their intended use and to assume all risk and liability in connection with their use. This Information will be periodically reviewed and may be subject to modification.